

1 **APPARATUS SYSTEM AND METHOD FOR**
2 **DETERMINISTICALLY TRANSFERRING DATA BY REBOOTING**
3 **TO A DATA TRANSFER KERNEL**

4 **ABSTRACT OF THE INVENTION**

5 A data saving device, system, and method rapidly and deterministically saves data of
6 a computer system. The device may mark data that must be saved when the computer is shut
7 down. In certain embodiments, a boot control module detects a condition requiring a rapid
8 deterministic data saving operation, such as a power failure and reboots the computer,
9 deterministically terminating all existing processes. Additionally, the boot control module
10 loads a data transfer kernel in place of a standard operating kernel used for normal operation.

11 The data transfer kernel supports a set of processes exclusively dedicated to saving data. The
12 data transfer kernel configures the computer and storage devices for the data transfer and
13 saves the marked data with a minimum of interruptions from other processes. Also, the data
14 transfer kernel may shut down the computer and the storage devices after transferring data.

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